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BULLETIN
OF THE
TORREY BOTANICAL CLUB.

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Plants Collected in Alaska and Nanaimo, B. C., July and August, 1891.*

BY GRACE E. COOLEY, WELLESLEY COLLEGE.

I desire to thank Drs. Vasey and Trelease, Prof. Underwood, Mr. Bebb, and my friend and colleague, Miss Cummings, for kindness in determining the plants of those groups of which they have made special study; also Dr. Robinson, for his courtesy in placing the valuable material of the Gray Herbarium at my disposal.

RANUNCULACEÆ.

- Aconitum delphinifolium*, DC. Juneau ; Sheep Creek, near Juneau.
Actea alba, Bigel. Chilcat.
Actea spicata, L. var. *rubra*, Ait. Juneau.
Anemone narcissiflora, L. Above Silver Bow Basin, near Juneau.
Anemone parviflora, Michx. Above Silver Bow Basin, near Juneau.
Anemone Richardsoni, Hook. Above Silver Bow Basin.
Aquilegia formosa, Fisch. Juneau ; Sheep Creek.
Coptis asplenifolia, Salisb. Salmon Creek, near Juneau ; Sheep Creek.
Ranunculus Cooleyæ, Vasey and Rose, n. sp. Near the summit of a ridge covered with snow, near Juneau, Aug. 6. Description to be published later.
Ranunculus Cymbalaria, Pursh. Chilcat.
Ranunculus Eschscholtzii, Schlecht. Near Juneau.
Ranunculus occidentalis, Nutt. Near Juneau.
Ranunculus occidentalis, Nutt. var. *Lyallii*, Gray. Wrangel.
Ranunculus pygmaeus, Wahl. Mountain above Silver Bow Basin, near Juneau.

BERBERIDACEÆ.

- Achlys triphylla*, DC. Nanaimo, B. C.

NYMPHÆACEÆ.

- Nuphar luteum*, Smith. Douglas Island.

* Supplementary to paper published in the June number.

CRUCIFERÆ.

- Arabis lyrata*, L. Juneau.
Arabis petræa, Law. var. *ambigua*, DC. Silver Bow Basin, near Juneau.
Cardamine hirsuta, L. Juneau.
Cochlearia officinalis, L. Loring.

VIOLACEÆ.

- Viola Langsdorffii*, Fisch. Juneau.
Viola palustris, L. Silver Bow Basin, near Juneau.

CARYOPHYLLACEÆ.

- Arenaria arctica*, Stev. New Metlakatla.
Arenaria oblongifolia, T. & G. Salmon Creek ; Chilcat.
Arenaria pungens, Nutt. Juneau.
Arenaria tenella, Nutt. Nanaimo, B. C.
Cerastium alpinum, L. Sheep Creek, near Juneau.
Cerastium alpinum, L. Form clothed with long, silky pubescence. Mountain near Juneau.
Cerastium vulgatum, L. Mountain near Juneau.
Lepigonum medium, Fries. Loring.
Sagina Linnæi, Presl. Auriferous sand, Silver Bow Basin, Juneau.
Silene acaulis, Linn. Mountains about Juneau.
Stellaria borealis, Bigelow, var. *corallina*, Fenzl. Wrangel.
Stellaria crispa, Cham. & Schlecht. Juneau.
Stellaria humifusa, Rottb. Chilcat.
Stellaria longipes, Goldie. Above Silver Bow Basin, near Juneau.
Stellaria longifolia, Muhl. New Metlakatla.

PORTULACEÆ.

- Claytonia parvifolia*, Moçino. Juneau.
Claytonia Sibirica, L. Nanaimo, B. C., Juneau.

HYPERICACEÆ.

- Hypericum anagalloides*, Cham. & Schlecht. Nanaimo, B. C.

GERANIACEÆ.

- Geranium erianthum*, DC. Juneau ; Sheep Creek, near Juneau.
Geranium rotundifolium, L. Nanaimo, B. C.
Impatiens fulva, Nutt. Juneau.

SAPINDACEÆ.

- Acer macrophyllum*, Pursh. Nanaimo, B. C.

LEGUMINOSÆ.

- Astragalus alpinus*, L. Mountain above Silver Bow Basin, near Juneau.
Lathyrus maritimus, Bigel. Chilcat.
Oxytropis campestris, DC. Mountain above Silver Bow Basin, near Juneau.
Oxytropis Lamberti, Pursh. Pyramid Harbor.
Trifolium involucratum, Willd. Nanaimo, B. C.

ROSACEÆ.

- Dryos octopetala*, L. Terminal Moraine of Davidson Glacier.
Eriogynia pectinata, Hook. Mountain above Silver Bow Basin, near Juneau.
Fragaria vesca, Linn. Nanaimo, B. C.
Geum calthifolium, Smith. Mountain near Juneau ; Sheep Creek, near Juneau.
Geum macrophyllum, Willd. Wrangel.
Potentilla palustris, Scop. Sphagnum swamp, near Juneau.
Poterium Sitchense, Watson. Juneau.
Rosa gymnocarpa, Nutt. Nanaimo, B. C.
Rubus Nutkanus, Moç. Loring.
Rubus pedatus, Smith. Juneau.
Rubus spectabilis, Pursh. Loring.
Rubus stellatus, Smith. Wrangel.
Rubus trivialis, Michx. Nanaimo, B. C.
Rubus ursinus, Cham. & Schlecht. Nanaimo, B. C.
Sibbaldia procumbens, L. Silver Bow Basin, near Juneau.
Spiræa Aruncus, Linn. Mountains near Juneau.
Spiræa betulæfolia, Pall. Juneau ; Sheep Creek.
Spiræa discolor, Pursh. Nanaimo, B. C.

SAXIFRAGACEÆ.

- Boykinia major*, Gray. Juneau.
Leptarrhena pyrolifolia, R. Br. Mountain near Juneau.
Mitella pentandra, Hook. Mountain above Silver Bow Basin, near Juneau.
Parnassia fimbriata, Koenig. Mountain above Silver Bow Basin, near Juneau.
Ribes bracteosum, Dougl. Near Juneau.
Ribes Hudsonianum, Rich. Nanaimo, B. C.
Ribes lacustre, Poir. Nanaimo, B. C. ; Moraine of Davidson Glacier.
Saxifraga bronchialis, L. Sheep Creek, near Juneau.
Saxifraga leucanthemifolia, Michx. Juneau.
Saxifraga Lyallii, Engl. Mountain-side, Juneau.
Saxifraga oppositifolia, L. Juneau.
Saxifraga punctata, L. Above Silver Bow Basin, near Juneau.
Saxifraga tricuspidata, Retz. Sheep Creek, near Juneau.
Tellima grandiflora, R. Br. Juneau.
Tiarella trifoliata, L. Nanaimo, B. C. ; Juneau.

CRASSULACEÆ.

- Sedum Rhodiola*, DC. Juneau.

DROSERACEÆ.

- Drosera rotundifolia*, L. Douglas Island.

ONAGRACEÆ.

- Boisduvalia Torreyi*, Wats. Nanaimo, B. C.
Circæa alpina, L. Nanaimo, B. C.
Epilobium anagallidifolium, Lam. Near Juneau.
Epilobium adenocaulon, Hausskn. (?) Near Juneau,
Epilobium boreale, Hausskn. (?) Near Juneau.

Epilobium Franciscanum, Barbey. Apparently from unusually far north. Near Juneau.

Epilobium Hornemanni, Reichenb. Near Juneau.

Epilobium latifolium, L. With white form as well. Mountain near Juneau.

Epilobium luteum, Pursh. Juneau.

Epilobium leptocarpum, Hausskn. var. (?) The Alaskan form noted in my revision. Near Juneau. [Wm. Trelease].

UMBELLIFERÆ.

Heracleum lanatum, Michx. Juneau.

Ligusticum Scoticum, L. Shore Gastineaux Channel.

Osmorrhiza nuda, Torr. Juneau.

Selinum Benthani, Wats. Chilcat.

Selinum Hookeri, Wats. Chilcat.

ARALIACEÆ.

Fatsia horrida, Benth. & Hook. Everywhere in the forests.

CORNACEÆ.

Cornus Canadensis, L. Wrangel.

CAPRIFOLIACEÆ.

Sambucus racemosa, L. Wrangel.

Symphoricarpos mollis, Nutt. Nanaimo, B. C.

Symphoricarpos occidentalis, Hook. Nanaimo, B. C.

Viburnum pauciflorum, Pylaie. Sheep Creek, near Juneau.

RUBIACEÆ.

Galium Aparine, L. Wrangel ; Juneau.

VALERIANACEÆ.

Valeriana Stitchensis, Bong. Silver Bow Basin, near Juneau.

Valerianella anomala, Gray. Nanaimo, B. C.

COMPOSITÆ.

Adenocaulon bicolor, Hook. Nanaimo, B. C.

Anaphalis margaritacea, Benth. & Hook. Chilcat.

Antennaria alpina, Gærtn. Mountain near Juneau.

Arnica alpina, Olin. (?) Mountain near Juneau.

Arnica latifolia, Bong. Above Silver Bow Basin, near Juneau. Near the snow, above tree-line (not "in woods," as Gray has it).

Arnica Unalaschensis, Less. Mountain near Juneau.

Artemisia Norvegica, Fries. var. *Pacifica*, Gray. Above Silver Bow Basin, near Juneau. Two distinct forms: one glabrous, heads small; one white-hairy, heads larger.

Aster foliaceus, Lindl. Juneau.

Aster modestus, Lindl. Sheep Creek, near Juneau.

Chrysanthemum arcticum, L. Chilcat.

Cotula coronopifolia, L. Nanaimo, B. C.

Erigeron salsuginosus, Gray var. *angustifolius*, Gray. Douglas Island.

Erigeron uniflorus, L. Mountain above Silver Bow Basin, near Juneau.

- Eriophyllum caespitosum*, Dougl. Nanaimo, B. C.
Gnaphalium purpureum, L. Nanaimo, B. C.
Hieracium albiflorum, Hook. Nanaimo, B. C.
Hieracium triste, Cham. Mountain slope near Alaska.
Madia Nuttallii, Gray. Nanaimo, B. C.
Petasites palmata, Gray. Above Silver Bow Basin, Juneau. The plants closely resemble *P. nivalis*, Greene (Pit. ii. p. 18) founded on specimens collected, in fruit only, by Smith on Mt. Ranier.
Prenanthes alata, Gray. Loring.
Senecio triangularis, Hook. Silver Bow Basin, near Juneau.
Silybum Marianum, Gærtn. Near steamer landing, Nanaimo, B. C.
Solidago lepida, DC. Juneau.
Sonchus asper, Vill. Nanaimo, B. C.
Taraxacum officinale, Web. var. *lividum*, Koch. Mountain above Silver Bow Basin, near Juneau.
Troximon heterophyllum, Greene. Nanaimo, B. C.

CAMPANULACEÆ.

- Campanula lasiocarpa*, Cham. Juneau.
Campanula Scouleri, Hook. Nanaimo, B. C.; Wrangel.
Campanula rotundifolia, L., var. *arctica*, Lange. Juneau.

ERICACEÆ.

- Arbutus Menziesii*, Pursh. Nanaimo, B. C.
Bryanthus glanduliflorus, Gray. Mountain near Juneau.
Cassiope Mertensiana, Don. Mountain near Juneau.
Cassiope Stelleriana, DC. Mountain near Juneau.
Gaultheria Shallon, Pursh. Nanaimo, B. C.; Loring.
Kalmia glauca, Ait. Douglas Island.
Loiseleuria procumbens, Desv. Mountain near Juneau.
Menziesia ferruginea, Smith. Loring.
Moneses grandiflora, Salisb. Salmon Creek, near Juneau.
Monotropa Hypopitys, L. Chilcat.
Pterospora Andromedea, Nutt. Nanaimo, B. C.
Pyrola minor, L. Above Silver Bow Basin, near Juneau.
Pyrola secunda, L. Chilcat.
Vaccinium ovalifolium, Smith. Wrangel; Loring.
Vaccinium parvifolium, Smith. Nanaimo, B. C.; Loring.
Vaccinium uliginosum, L. Juneau.
Vaccinium Vitis-Ideæ, L. New Metlakatla.

PRIMULACEÆ.

- Dodecatheon Meadia*, L., var. *macrocarpum*, Gray. Douglas Island.
Gleux maritima, L. Sea beach, near Juneau.
Trientalis Europæa, L. Sheep Creek and Salmon Creek, near Juneau.

GENTIANACEÆ.

- Gentiana Amarella*, L., var. *acuta*, Hook. f. Port Townsend, Washington.
Gentiana arctophila, Griseb. Mountain above Silver Bow Basin, near Juneau.

Gentiana Douglasiana, Bong. Douglas Island ; New Metlakatla.

Menyanthes Crista-galli, Menzies. Douglas Island ; Sphagnum swamp, near Juneau.

POLEMONIACEÆ.

Gilia capitata, Dougl. New Metlakatla.

Gilia tenella, Benth. Nanaimo, B. C.

HYDROPHYLLACEÆ.

Romanzoffia Sitchensis, Bong. Juneau.

BORRAGINACEÆ.

Eritrichium Scouleri, A. DC. Nanaimo, B. C.

Mertensia maritima, Don. Beach, near Gold Creek.

SCROPHULARIACEÆ.

Castilleja miniata, Dougl. Sheep Creek, near Juneau.

Mimulus luteus, L. Juneau.

Mimulus moschatus, Dougl. Nanaimo, B. C.

Pedicularis Langsdorffii, Fisch., var. *lanata*, Gray. Mountain near Juneau.

Pedicularis palustris, L., var. *Wlassoviana*, Bong. Douglas Island ; New Metlakatla.

Rhinanthus Crista-galli, L. Chilcat.

Veronica alpina, L. Mountain above Silver Bow Basin.

Veronica Americana, Schwein. Salmon Creek, near Juneau.

LABIATÆ.

Brunella vulgaris, L. Juneau.

Micromeria Douglasii, Benth. Nanaimo, B. C.

Stachys ciliata, Dougl., var. *pubens*, Gray, Nanaimo, B. C.

CHENOPODIACEÆ.

Atriplex patulum, L., var. *littorale*, Gray. Salmon Creek, near Juneau.

POLYGONACEÆ.

Kœnigia Islandica, L. Auriferous sand, Silver Bow Basin, near Juneau.

Oxyria digyna, Hill. Juneau, July 24.

Polygonum viviparum, L. Mountain near Juneau.

Rumex salicifolius, Weinm. Wrangel.

CUPULIFERÆ.

Alnus viridis, DC. Gold Creek, near Juneau.

SALICACEÆ.

Populus trichocarpa, T. & G. (?) Sheep Creek, near Juneau ; terminal moraine Davidson Glacier.

Salix arctica, Pallas. Mountain near Juneau.

Salix Barclayi, Anders. Silver Bow Basin, near Juneau.

Salix Brownii, Bebb. var. Leaves oblanceolate, acuminate, almost folded together and recurved, attenuate at base, 2-2½ inches long, 1 inch or less wide, very thin veins scarcely elevated ; petioles slender, ½ inch or less long ; stipules none ; aments elongated, flexuose, 2-3 inches long. borne on slender conspicuously leafy peduncles. This would seem to merit varietal distinction, but, owing to

the confusion which exists concerning the forms intermediate between *S. arctica* and *S. Brownii*, it would be inexpedient to impose a new name.

The plant appears to be an extreme modification of the mountain form of *S. Brownii*, and was found associated with an Alpine flora near the line of perpetual snow. On some accounts it might reasonably be referred (from the description) to *S. arctica*, *Brownii*, *obovata*, Anders. (DC. Prod. 16, 2, 286) but that is based upon coast forms from Unalashka which almost certainly belong to *S. arctica*, Pall. Unfortunately, the Kew Herbarium does not help us out. Mr. Baker writes that "Dr. Andersson has not, with casual exception, authenticated his varieties of *S. arctica*, but only the species as a whole." [M. S. Bebb.]

Mountain above Silver Bow Basin near Juneau, August 6.

Salix ovalifolia, Traut. Mountain above Silver Bow Basin.

Salix reticulata, L. Mountain above Silver Bow Basin.

Salix Sitchensis, Lawson, var. *denudata*, Anders. Silver Bow Basin.

Salix speciosa, Hook. and Arn. Moraine of Davidson Glacier.

EMPETRACEÆ.

Empetrum nigrum, L. Douglas Island

CONIFERÆ.

Picea Sitchensis, Carr. Juneau, widely distributed.

Thuja gigantea, Nutt. Nanaimo, B. C.

ORCHIDACEÆ.

Goodyera Menziesii, Lindl. Loring; Chilcat.

Habenaria bracteata, R. Br. Mt. above Silver Bow Basin, near Juneau.

Habenaria Chorisiana, Cham. Douglas Island.

Habenaria gracilis, Wats. New Metlakatla.

Habenaria hypoborea, R. Br. New Metlakatla.

Habenaria leucostachys, Wats. Douglas Island.

Spiranthes Romanzoffiana, Cham. New Metlakatla.

LILIACEÆ.

Allium , Nanaimo, B. C.

Brodiaea minor, Wats. Nanaimo, B. C.

Clintonia uniflora, Kunth. Loring.

Maianthemum bifolium, DC., var. *dilatatum*, Wood. Loring.

Streptopus amplexifolius, DC. Wrangel, Loring, Juneau, etc.

Streptopus brevipes, Baker. Juneau.

Tofieldia coccinea, Richards. Above Silver Bow Basin, near Juneau.

Tofieldia occidentalis, Wats. Douglas Island, New Metlakatla.

Veratrum viride, Ait. Mountains about Juneau.

JUNCACEÆ.

Juncus castaneus, Smith. Silver Bow Basin, near Juneau.

Juncus Drummondii, Mey. Mountain near Juneau.

Juncus Mertensianus, Mey. Mountain near Juneau.

Luzula parviflora, Desv. Silver Bow Basin, near Juneau.

ARACEÆ.

Lysichiton Kamtschaticense, Schott. Juneau.

NAIADACEÆ.

Triglochin maritima, L. Sea-marsh, Salmon Creek, near Juneau.

CYPERACEÆ.

Carex limosa, L., var. *stygia*, Bailey. Sphagnum Swamp, near Juneau.

Carex Mertensii, Presc. Mountain near Juneau.

Carex podocarpa, R. Br. Sphagnum swamp, Silver Bow Basin, near Juneau.

Carex ? Mountain near Juneau.

Eriophorum gracile, Koch. Sphagnum swamp, Silver Bow Basin, near Juneau.

GRAMINEÆ.

Deschampsia atropurpurea, Scheele. Mountain near Juneau.

Phleum alpinum, L. Juneau.

Poa alpina, L. Mountain near Juneau.

Poa stenantha, Trin., var. *vivipara*, Trin. Mountain near Juneau.

EQUISETACEÆ.

Equisetum arvense, L. Mountains above Silver Bow Basin, Juneau.

Equisetum hyemale, L. Mountain above Silver Bow Basin.

Equisetum Near Juneau.

Equisetum Near Juneau.

FILICES.

Aspidium aculeatum, Swartz. Juneau.

Aspidium Boottii, Tuckerm. Loring.

Aspidium Lonchitis, Swartz. Above Silver Bow Basin, near Juneau.

Aspidium spinulosum, Swartz., var. *dilatatum*, Hornem. Juneau.

Aspidium spinulosum, Swartz., var. *intermedium*, Eaton. Wrangel.

Cryptogramme achrosticoides, R. Br. Juneau, Nanaimo, B. C., Sheep Creek.

Cystopteris fragilis, Bernh. Juneau.

Lomaria Spicant, Desv. Nanaimo, B. C., Wrangel.

Phegopteris Dryopteris, Fée. Nanaimo, B. C., Juneau.

Phegopteris polypodioides, Fée. Juneau.

Polypodium vulgare, Linn. Killisnov.

Pteris aquilina, L., var. *lanuginosa*, Bong. Juneau.

LYCOPODIACEÆ.

Lycopodium complanatum, L. Mountain above the Basin, near Juneau.

Lycopodium annotinum, L. Mountain above the Basin, Juneau.

Lycopodium Selago, L. Above Silver Bow Basin, near Juneau.

HEPATICÆ.

(Determined by Dr. Lucien M. Underwood).

Bazzania deflexa, B. Gr. Loring.

Cephalozia multiflora, Lindb. Salmon Creek, near Juneau.

Chiloscyphus polyanthos, Corda., var. *rivularis*, Nees. Salmon Creek, near Juneau;
new to Alaska.

Conocephalus conicus, Dumort. Salmon Creek, near Juneau.

Kantia trichomanis, Dumort. Sitka.

Lepidozia reptans, Dumort. Sitka.

- Marchantia polymorpha*, L. Nanaimo, B. C., Mountains near Juneau.
Metzgeria hamata, Lindb. Gold Creek, near Juneau. Not found since Sullivant distributed it from the Lower Alleghanies in 1845.
Metzgeria pubescens, Raddi. Gold Creek, near Juneau.
Pellia epiphylla, Nees. Sitka, Salmon Creek; new to Alaska.
Porella platyphylla, Sheep Creek, near Juneau.
Preissia hemisphærica, Cogn. Mountains near Juneau.
Scapania nemorosa, Nees. Gold Creek, near Juneau, Sitka.

LIST OF MOSSES AND LICHENS.

By CLARA E. CUMMINGS.

MOSSES.

- Dicranoweisia crispula*, Lindb. Above the Basin, Juneau.
Dicranella crispa, Schimp. Juneau.
Dicranella heteromalla, Schimp. Juneau, and at Gold Creek Cañon, near Juneau.
Dicranum fuscescens, Turn. Sitka.
Dicranum scoparium, Hedw. Loring, also at Salmon Creek, near Juneau.
Dicranum majus, Turn. Sitka.
Caratodon purpureus, Brid. Juneau; also at Salmon Creek and Gold Creek Cañon, near Juneau, and at Nanaimo, B. C.
Blindia acuta, Br. and Schimp. Juneau 3,000 ft.; also at Salmon Creek and Gold Creek Cañon, near Juneau.
Grimmia Californica, Sulliv. Above the Basin, Juneau.
Racomitrium aciculare, Brid. Juneau, and at Gold Creek Cañon, near Juneau.
Racomitrium canescens Brid. Near the snow line, above the Basin, Juneau; also Davidson Glacier, Terminal Moraine, Pyramid Harbor, on the Sound near the shore. Plants with few lateral branches.
Hedwigia ciliata, Ehrh., var. *leucophaea*, Schimp. Juneau.
Ulota crispa, Brid. Sheep Creek, near Juneau.
Ulota crispula, Brid. Sitka.
Tetraphis geniculata, Girgens. Salmon Creek, near Juneau, Sitka; very fine specimens.
Bartramia pomiformis, Hedw. Juneau, 3,000 ft.; also at Salmon Creek and Gold Creek Cañon, near Juneau.
Philonotis Macounii, Lesq. & James. Juneau 3,000 ft.; also a doubtful specimen from Gold Creek Cañon, near Juneau.
Philonotis fontana, Brid. Near the snow line, above the Basin, Juneau.
Philonotis fontana, Brid., var. *serrata*, Kind. On earth, Gold Creek Cañon, near Juneau. The variety not yet published, but kindly named by Mrs. Britton from the advance sheets of Macoun's Catalogue.
Webera nutans, Hedw. Salmon Creek, near Juneau, Loring; also at Nanaimo, B. C.
Webera cruda, Schimp. Gold Creek Cañon, near Juneau.
Webera commutata, Schimp. (?) Same locality.
Bryum pallens, Swartz. Douglas Island.
Bryum pseudotriquetrum, Schwægr. Nanaimo, B. C.
Bryum Juneau.
Mnium orthorrhynchum, Br. & Sch. (?) Salmon Creek, near Juneau.